

Title (en)
SOUND PROCESSING

Title (de)
TONVERARBEITUNG

Title (fr)
TRAITEMENT DU SON

Publication
EP 1380189 B1 20040915 (EN)

Application
EP 02720211 A 20020418

Priority
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Abstract (en)
[origin: WO02085068A2] The spatial radiation characteristics of a sounding object are encoded by spherical harmonics. The shape is decomposed (105) into a weighted sum of spherical harmonics, comprising at least the order 0 components and such higher orders as are deemed necessary. The weights are stored individually. Each shape as defined by the individual spherical harmonics is also used to calculate an impulse response for that spherical harmonic (106). These impulse responses are of a modified form where the impulse consists of sums of equally weighted components, so each time point can only take integer values for the size of the impulse at that point. The modified impulse responses are transformed into spherical harmonic form (107), after which the apparent orientation and distance of the sounding object may be varied. Any sound may be processed by using the impulse response so generated (111).

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H04S 1/00; **H04S 3/00**

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